



08/613070

08/613070

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

ATOMIC-2

AN IMPROVED SECOND STAGE SCUBA
DIVING REGULATOR HAVING A
PNEUMATIC-DEPENDENT ANTI-SET FEATURE

ABSTRACT OF THE INVENTION

A second stage scuba pressure regulator having a valve seat and a floating piston that is free to travel axially within adjustable limits in relationship to the valve seat. Upon pressurization, the piston is pneumatically actuated to make contact with a valve seat set to a pre-adjusted contact interference. Upon depressurization, the piston is free to retract away from the valve seat to a position of no or minimal contact which will prevent long term deformation of the contacting surfaces.